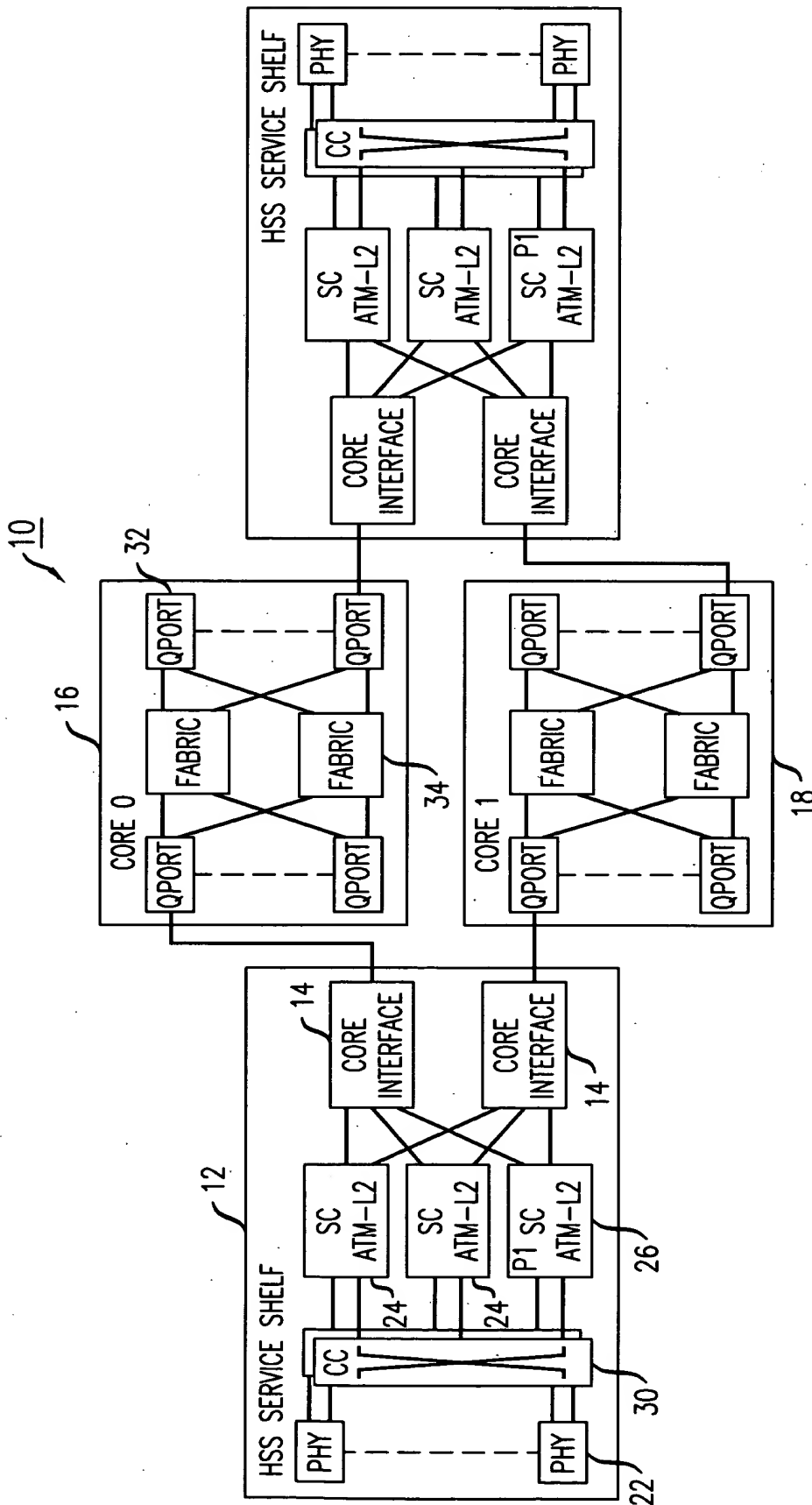


FIG. 1



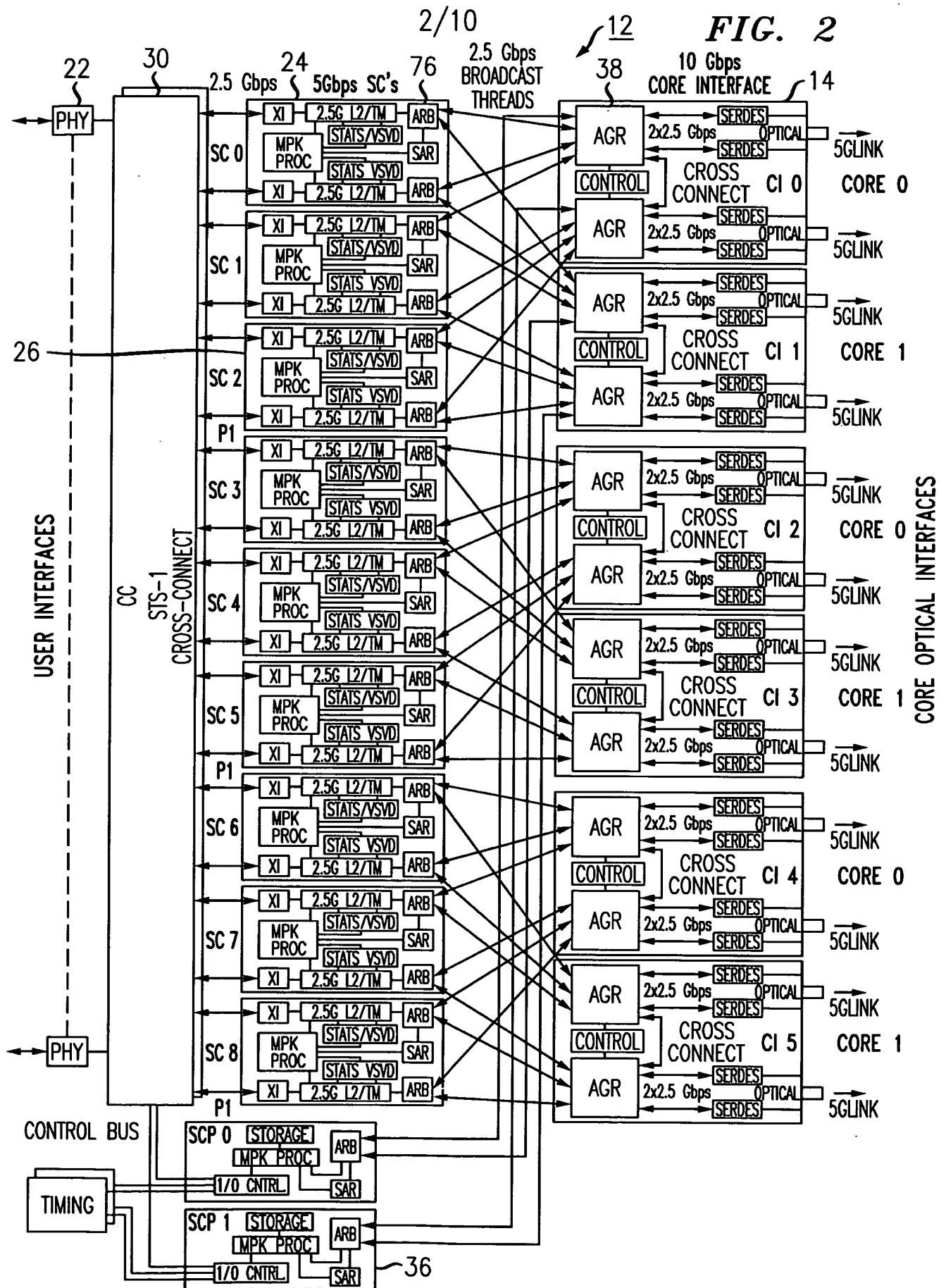
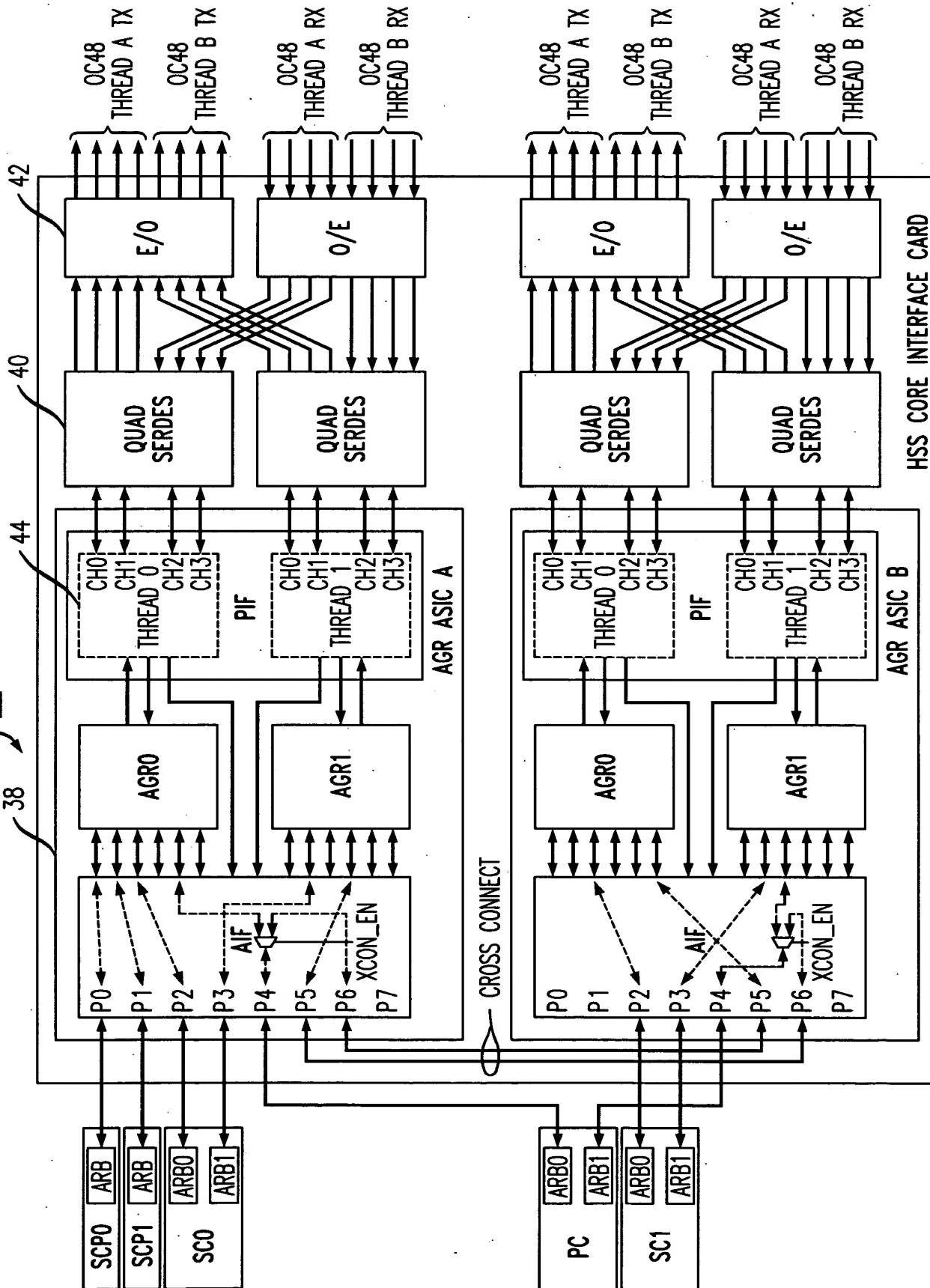


FIG. 3

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FIG. 4

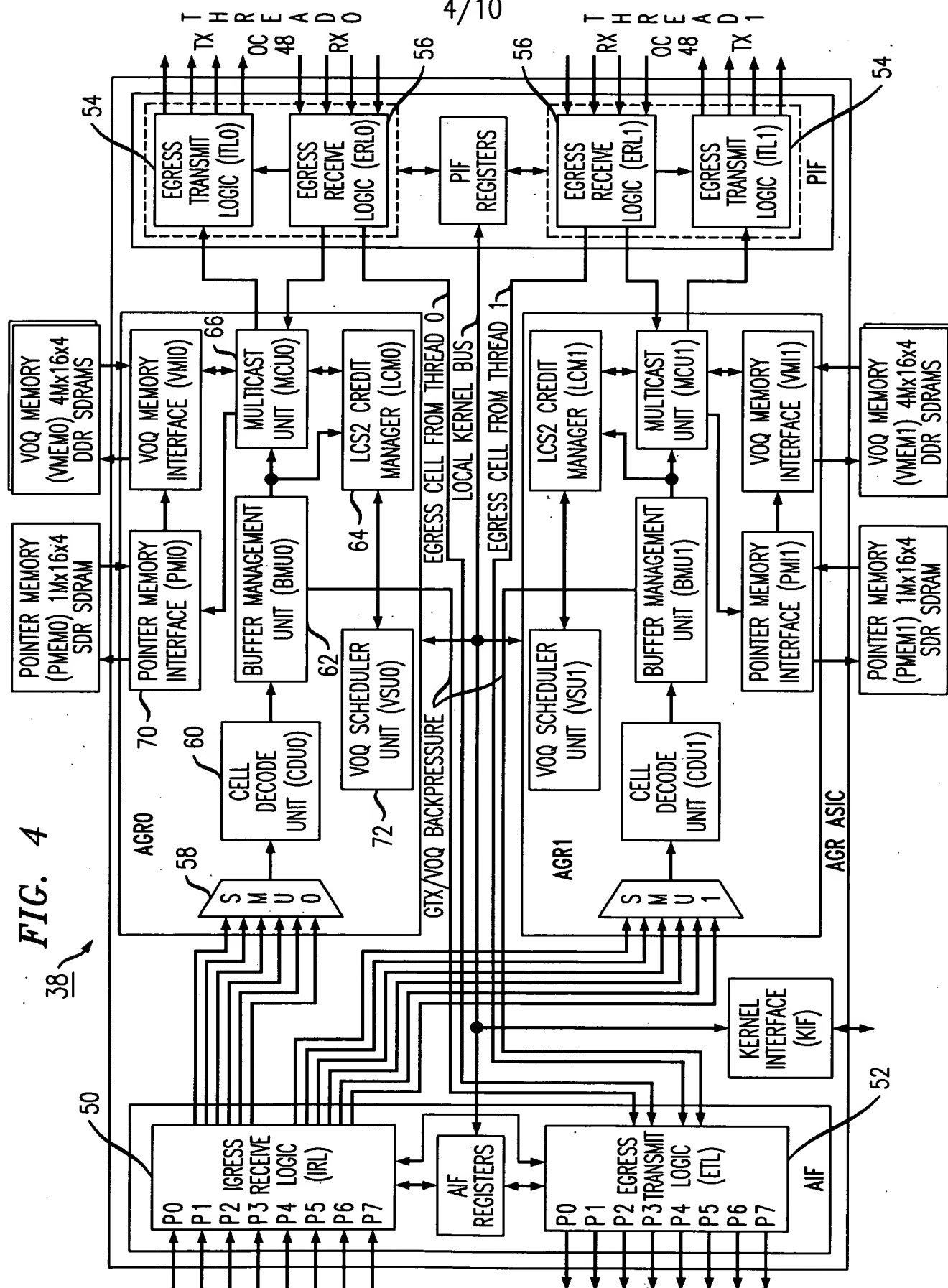


FIG. 5

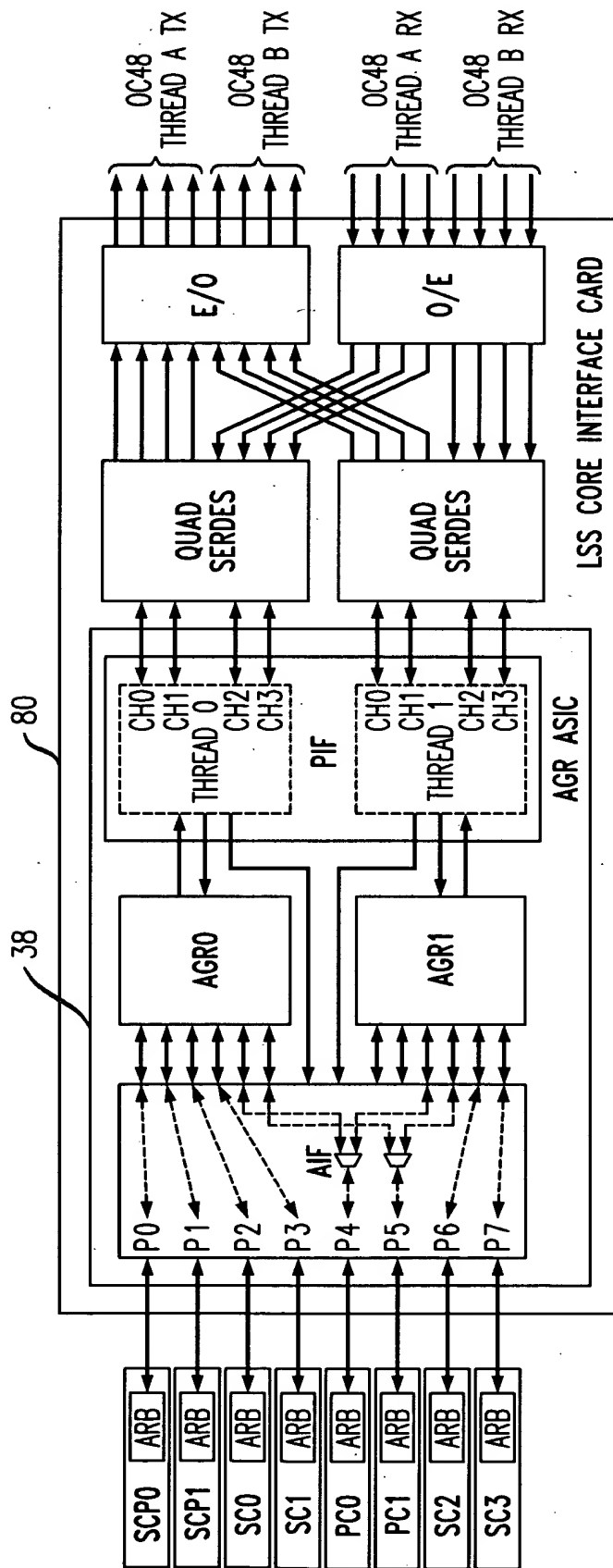


FIG. 6

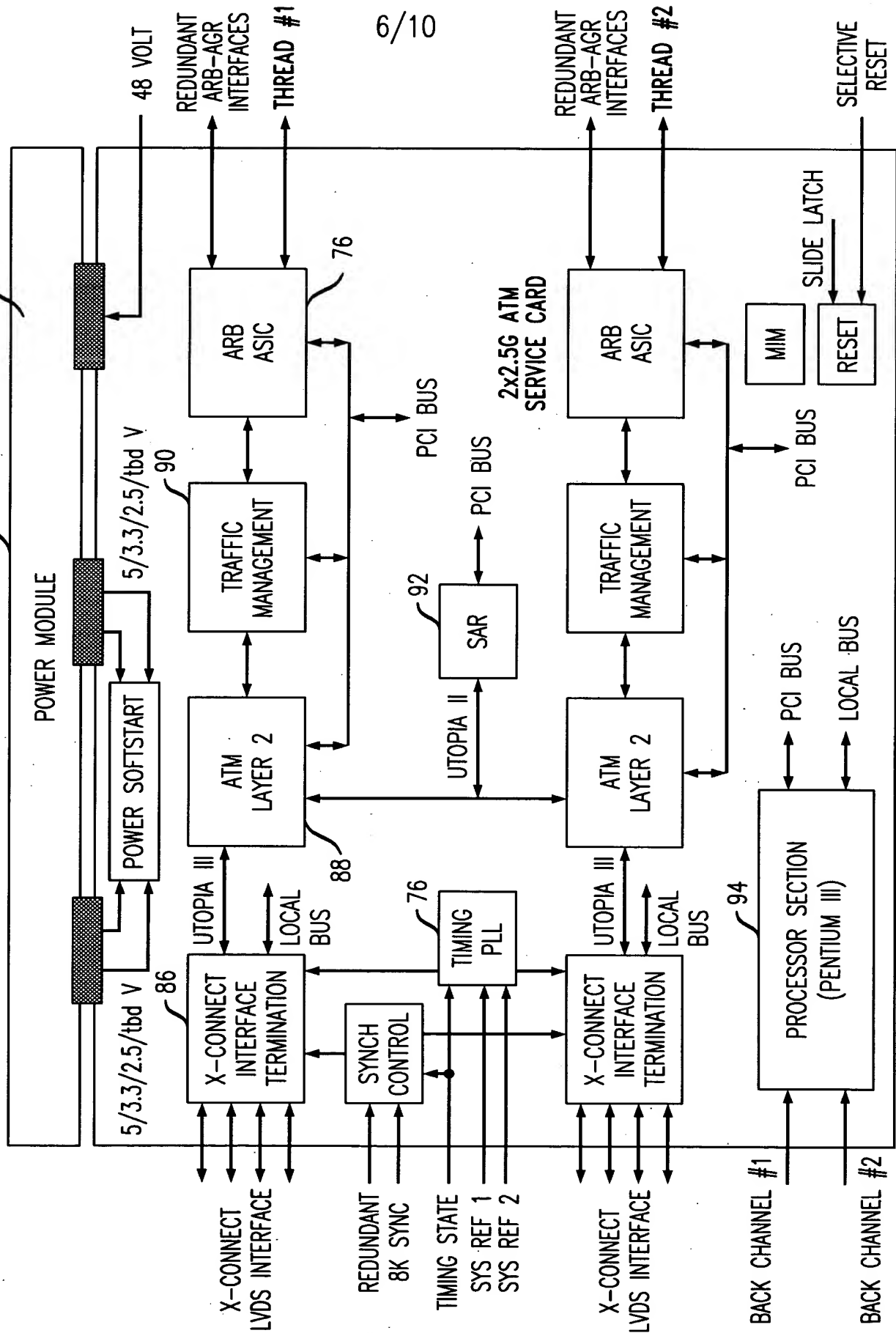
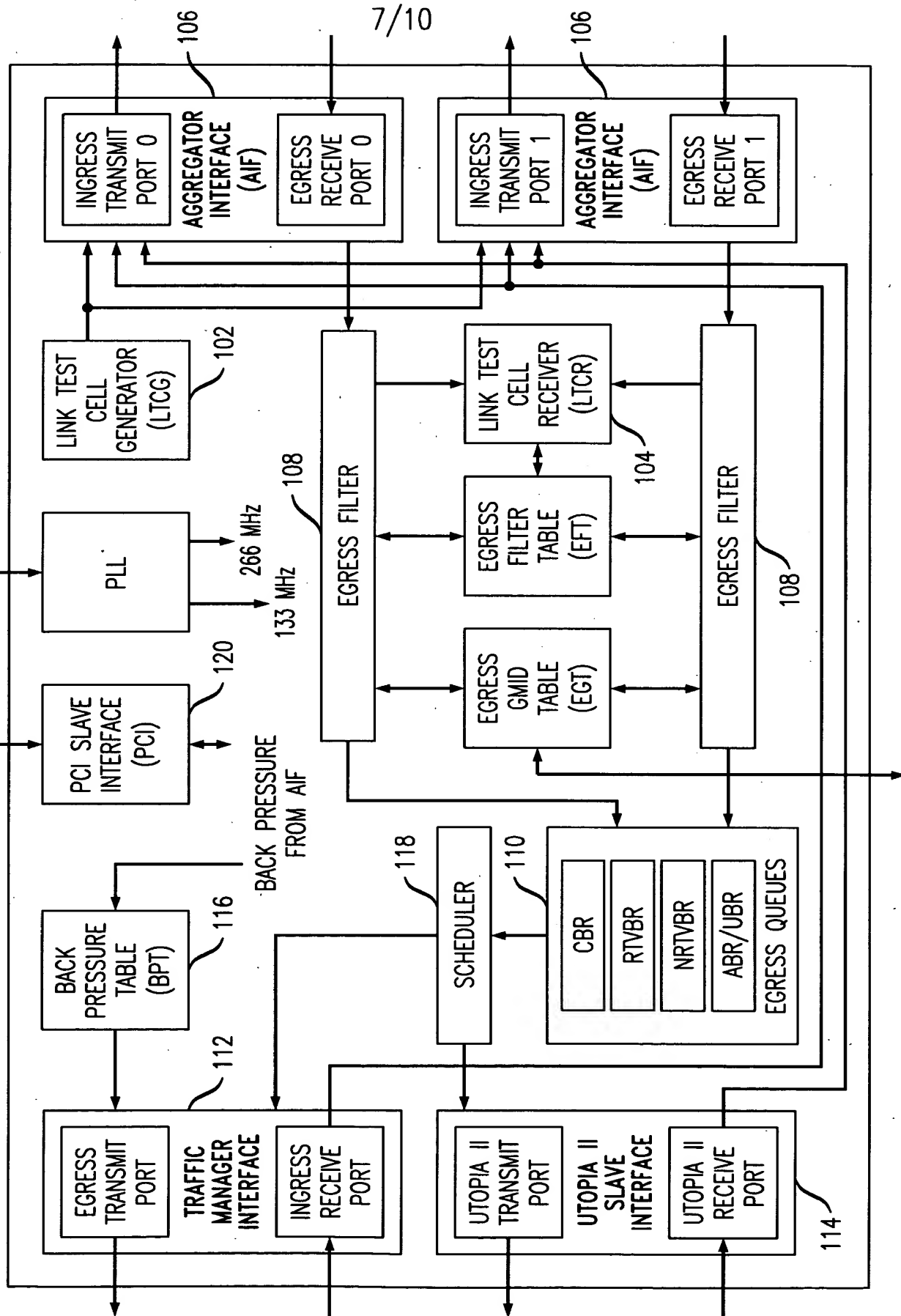
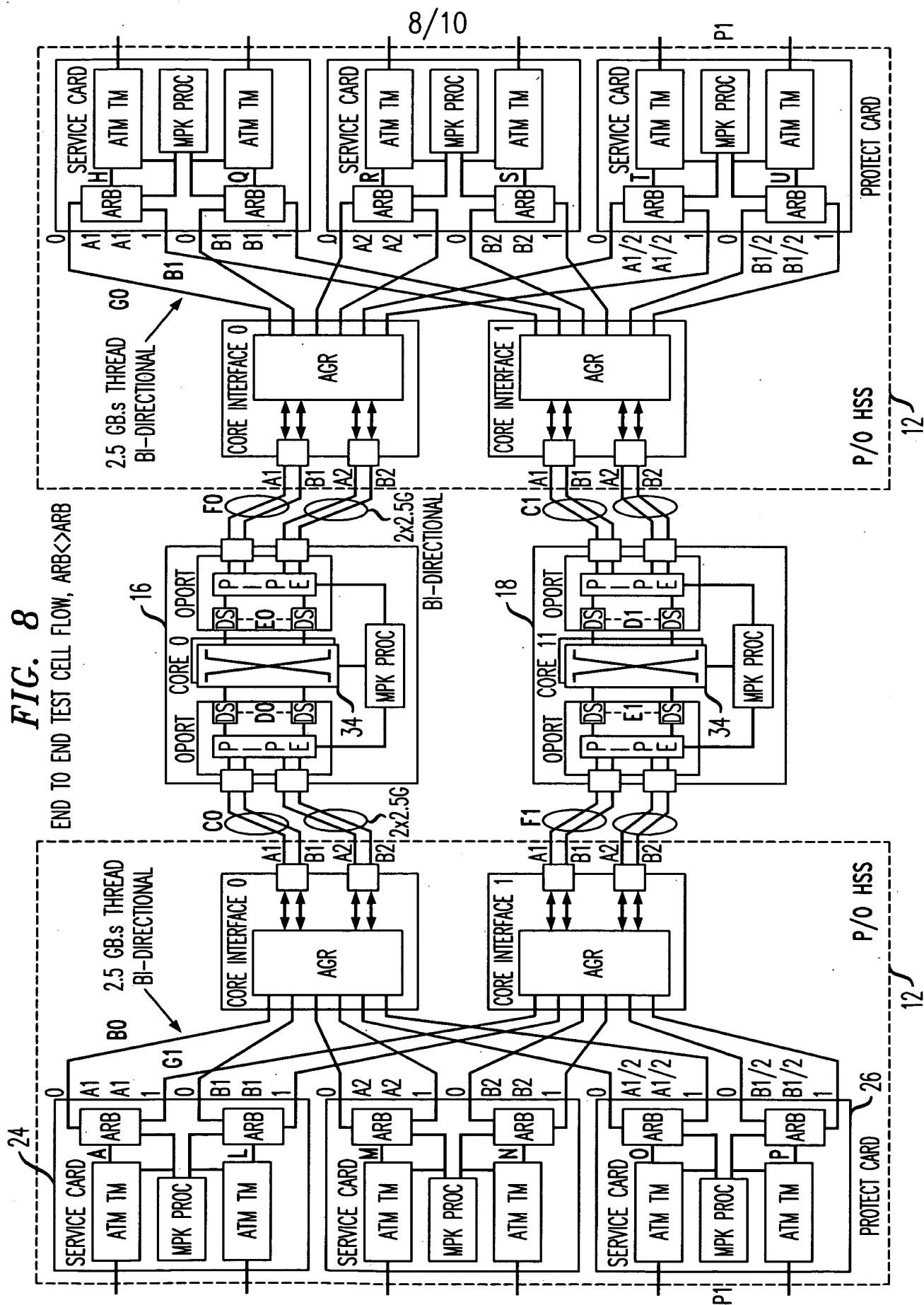


FIG. 7



END TO END TEST CELL FLOW, ARB<>ARB



LTC GENERATOR TABLE

x.y (10 bits) INDEX (1K)	ENABLE TX FOR FLOW							POINTER TO NEXT FLOW (10 bits)
	Z7	Z6	Z5	Z4	Z3	Z2	Z1	Z0
0	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0
...	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0
1048	1/0	1/0	1/0	1/0	1/0	1/0	1/0	1/0

LTC GENERATOR FIELD DEFINITIONS

FIELD	DEFINITION
Z7-Z0	ENABLE TEST CELL GENERATION FOR THE PARTICULAR Z FLOW. 1 = SEND LTC ON FLOW 0 = DO NOT SET LTC ON FLOW
PTR	POINT TO NEXT LOCATION OR NEXT FLOW IN THIS TABLE THAT CONTAINS TEST CELL INFORMATION TO SEND.

FIG. 9

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LTC RECEIVER TABLE

x.y (10 bits) INDEX (1K)	ENABLE CHECK [7:0]	ENABLE CHECK [7:0]	CELL RCVD [7:0]	CELL RCVD [7:0]	FAULT [7:0]	FAULT [7:0]	COUNT [9:0]	COUNT [9:0]	ERROR CNT [3:0]	ERROR CNT [3:0]
	CORE 0	CORE 1	CORE 0	CORE 1	CORE 0	CORE 1	CORE 0	CORE 1	CORE 0	CORE 1
0	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXXXX	XXXXXXXX	XXXX	XXXX
...	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXXXX	XXXXXXXX	XXXX	XXXX
1023	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXX	XXXXXXXX	XXXXXXXX	XXXX	XXXX

LTC GENERATOR FIELD DEFINITIONS

FIELD	DEFINITION
ENABLE CHECK	ENABLE TEST CELL VERIFICATION FOR THAT x.y.z.
CELL RCVD	SET WHEN A CELL COMES IN ON A FLOW. CLEARED BY TABLE CHECKER.
FAULT	SET WHEN A LINK IS DECLARED FAULTED, RESET WHEN LINK IS DECLARED GOOD.
COUNT	START COUNTING UP WHEN THE TABLE HAS BEEN SCANNED AND ENABLE IS SET FOR A FLOW BUT A LTC HAS NOT BEEN RECEIVED ON THAT FLOW. WHEN THE PROGRAMMABLE THRESHOLD THAT INDICATES WHEN TO FLAG A FLOW AS BAD IS REACHED, AND INTERRUPT WILL BE GENERATED TO THE PROCESSOR INTERFACE. ANY Z CAN BE 'BAD' FOR THE COUNT TO INCREMENT FOR THE x.y. WHEN THERE ARE NO ERRORS AFTER AN ERROR CONDITION, THIS WILL START TO COUNT THE NUMBER OF GOOD CHECK CYCLES FOR A FLOW. AFTER THE PROGRAMMABLE THRESHOLD THAT INDICATES WHEN A FLOW IS CONSIDERED GOOD IS REACHED THE FLOW IS DECLARED GOOD AND THE PROCESSOR IS NOTIFIED VIA AN INTERRUPT IF ENABLED.
ERROR CNT	COUNT OF TEST CELLS WITH FIXED PAYLOAD ERRORS.

FIG. 10